## In the claims:

Claims 1 to 15 (cancelled)

- 16. (New) An interferometric coupler for controlling radiation proceeding therethrough, the coupler comprising:
  - at least one input for conveying radiation incident to the coupler;
- a first amplifying part optically coupled to the at least one input for amplifying the incident radiation;
- a second transparent part optically coupled to the first part to guide radiation previously amplified in the first part, and
- at least two outputs optically coupled to the second part for conveying radiation from the coupler.
- 17. (New) An integrated optical device comprising:
  - an optical pre-amplifier receiving input radiation;
- an interferometric coupler optically coupled to and receiving radiation from the preamplifier, the coupler comprising:
- a first amplifying part for amplifying the radiation received from the preamplifier;
- a second transparent part optically coupled to the first part to guide radiation previously amplified in the first part; and
- a first and a second output optically coupled to the second part for conveying amplified radiation from the coupler;
  - a first optical amplifier optically coupled to the first output;
  - a second optical amplifier optically coupled to the second output; and
  - a 2x2 optical coupler optically coupled to the first and the second optical amplifiers.